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|--|---|---------------------------------------|----------------------------------|-------|--------------|-------------------------|
| FORM PTO-1449  |   | DOCKET NUMBER<br>338CON1              | APPLICATION NUMBER<br>10/757,873 |       |              |                         |
| INFORMATION DISCLOSURE<br>CITATION IN AN APPLICATION |   | APPLICANT(S)<br>Donald J. Lewis et al |                                  |       |              |                         |
|  |   | FILING DATE<br>January 14, 2004       | GROUP ART UNIT<br>3748           |       |              |                         |
| U.S. PATENT DOCUMENTS                                |   |                                       |                                  |       |              |                         |
| EXAMINER<br>INITIAL                                  | DOCUMENT<br>NUMBER  | DATE                                  | NAME                             | CLASS | SUB<br>CLASS | FIL. DATE<br>IF APPROP. |
| BS   | 5,274,559   | 12-28-93                              | Takahashi et al                  | —     | —            | —                       |
| ↓  | 5,325,664   | 7-5-94                                | Seki et al                       | ↓     | ↓            | ↓                       |
| ↓  | 5,509,267   | 4-23-96                               | Thesis                           | ↓     | ↓            | ↓                       |
| ↓  | 5,595,060   | 1-21-97                               | Togai et al                      | ↓     | ↓            | ↓                       |
| ↓  | 5,609,023   | 3-11-97                               | Kato et al                       | ↓     | ↓            | ↓                       |
| ↓  | 5,610,844   | 3-11-97                               | Maus et al                       | ↓     | ↓            | ↓                       |
| ↓  | 5,625,750   | 4-29-97                               | Puskorius et al                  | ↓     | ↓            | ↓                       |
| ↓  | 5,626,014   | 5-6-97                                | Hepburn et al                    | ↓     | ↓            | ↓                       |
| ↓  | 5,649,420   | 7-22-97                               | Mukahira et al                   | ↓     | ↓            | ↓                       |
| ↓  | 5,678,402   | 10-21-97                              | Kitigawa et al                   | ↓     | ↓            | ↓                       |
| ↓  | 5,732,551   | 3-31-98                               | Kato et al                       | ↓     | ↓            | ↓                       |
| FOREIGN PATENT DOCUMENTS                             |   |                                       |                                  |       |              |                         |
|  | DOCUMENT<br>NUMBER  | DATE                                  | COUNTRY                          | CLASS | SUB<br>CLASS | TRANSLATION<br>YES NO   |
| BS   | 0733787   | 9-25-96                               | EP                               |       |              |                         |
| ↓  | 0831226   | 3-25-98                               | EP                               |       |              |                         |
| ↓  | 2344771   | 6-21-00                               | GB                               |       |              |                         |
| OTHER DOCUMENTS                                      |   |                                       |                                  |       |              |                         |
| BS   | SAE 1999-01-3476, "A Simplified Approach to Modeling Exhaust System Emissions: SIMTWC", Laing et al.  |                                       |                                  |       |              |                         |
| ↓  | JAMES C. PEYTON et al; A Simplified Model for the Dynamics of a Three-Way Catalytic Converter; Reprinted from: Exhaust Aftertreatment Modeling and Gasoline Direct Injection Aftertreatment (SP-1533) SAE International Technical Paper Series, Warrendale, Pennsylvania, USA |                                       |                                  |       |              |                         |
| ↓  | SAE 800052 Air-Fuel Control to reduce emissions, II. Engine-catalyst characterization under cyclic conditions; Wei-Ming Wang; Congress and Exposition, Cobo Hall, Detroit, MI, 2/25-29, 1980  |                                       |                                  |       |              |                         |
| EXAMINER<br>BINH Q. TRAN                             |   |                                       | DATE CONSIDERED<br>06/20/2005    |       |              |                         |



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|   |                    | FILING DATE<br>January 14, 2004       |                               | GROUP ART UNIT                   |              |                         |
| U.S. PATENT DOCUMENTS   |                    |                                       |                               |                                  |              |                         |
| EXAMINER<br>INITIAL   | DOCUMENT<br>NUMBER | DATE                                  | NAME                          | CLASS                            | SUB<br>CLASS | FIL. DATE<br>IF APPROP. |
| BS  | 5,784,880          | 7-28-98                               | Toshiro et al                 |                                  |              |                         |
| ↓   | 5,842,339          | 12-1-98                               | Bush et al                    |                                  |              |                         |
|   | 5,842,340          | 12-1-98                               | Bush et al                    |                                  |              |                         |
|   | 5,848,528          | 12-15-98                              | Liu                           |                                  |              |                         |
|   | 5,857,163          | 1-5-99                                | Trombley et al                |                                  |              |                         |
|   | 5,881,552          | 3-16-99                               | Iwata et al                   |                                  |              |                         |
|   | 5,894,724          | 4-20-99                               | Minowa et al                  |                                  |              |                         |
|   | 5,970,707          | 10-26-99                              | Sawada et al                  |                                  |              |                         |
|   | 6,032,461          | 3-7-00                                | Kinugasa et al                |                                  |              |                         |
|   | 6,052,989          | 4-25-00                               | McCabe et al                  |                                  |              |                         |
|   | ✓                  | 6,057,605                             | 5-2-00                        | Bourne et al                     |              |                         |
| FOREIGN PATENT DOCUMENTS  |                    |                                       |                               |                                  |              |                         |
|   | DOCUMENT<br>NUMBER | DATE                                  | COUNTRY                       | CLASS                            | SUB<br>CLASS | TRANSLATION<br>YES NO   |
| BS  | 1061245            | 12-2-00                               | EP                            |                                  |              |                         |
| ↓   | 2356160            | 5-16-01                               | GB                            |                                  |              |                         |
| ↓   | 1128042            | 8-29-01                               | EP                            |                                  |              |                         |
| OTHER DOCUMENTS   |                    |                                       |                               |                                  |              |                         |
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|   |                    |                                       |                               |                                  |              |                         |
| EXAMINER<br>BINH TRAN   |                    |                                       | DATE CONSIDERED<br>06/20/2005 |                                  |              |                         |

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| U.S. PATENT DOCUMENTS   |                    |                                       |                               |                                  |              |                         |
| EXAMINER<br>INITIAL   | DOCUMENT<br>NUMBER | DATE                                  | NAME                          | CLASS.                           | SUB<br>CLASS | FIL. DATE<br>IF APPROP. |
| B5  | 6,155,242          | 12-5-00                               | Kotwicki et al                |                                  |              |                         |
|   | 6,170,475          | 1-9-01                                | Lewis et al                   |                                  |              |                         |
|   | 6,226,982          | 5-8-01                                | Poggio et al                  |                                  |              |                         |
|   | 2001/0013221       | 8-16-01                               | Suzuki et al                  |                                  |              |                         |
|   | 6,289,673          | 9-18-01                               | Tayama et al                  |                                  |              |                         |
|   | 6,370,868          | 4-16-02                               | Kolmanovsky et al             |                                  |              |                         |
|   | 6,481,201          | 11-19-02                              | Kako et al                    |                                  |              |                         |
|   | 6,502,389          | 1-7-03                                | Katayama et al                |                                  |              |                         |
|   |                    |                                       |                               |                                  |              |                         |
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|   |                    |                                       |                               |                                  |              |                         |
| FOREIGN PATENT DOCUMENTS  |                    |                                       |                               |                                  |              |                         |
|   | DOCUMENT<br>NUMBER | DATE                                  | COUNTRY                       | CLASS                            | SUB<br>CLASS | TRANSLATION<br>YES NO   |
| B5  | 1253309            | 10-30-02                              | EP                            |                                  |              |                         |
|   |                    |                                       |                               |                                  |              |                         |
|   |                    |                                       |                               |                                  |              |                         |
| OTHER DOCUMENTS   |                    |                                       |                               |                                  |              |                         |
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|   |                    |                                       |                               |                                  |              |                         |
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